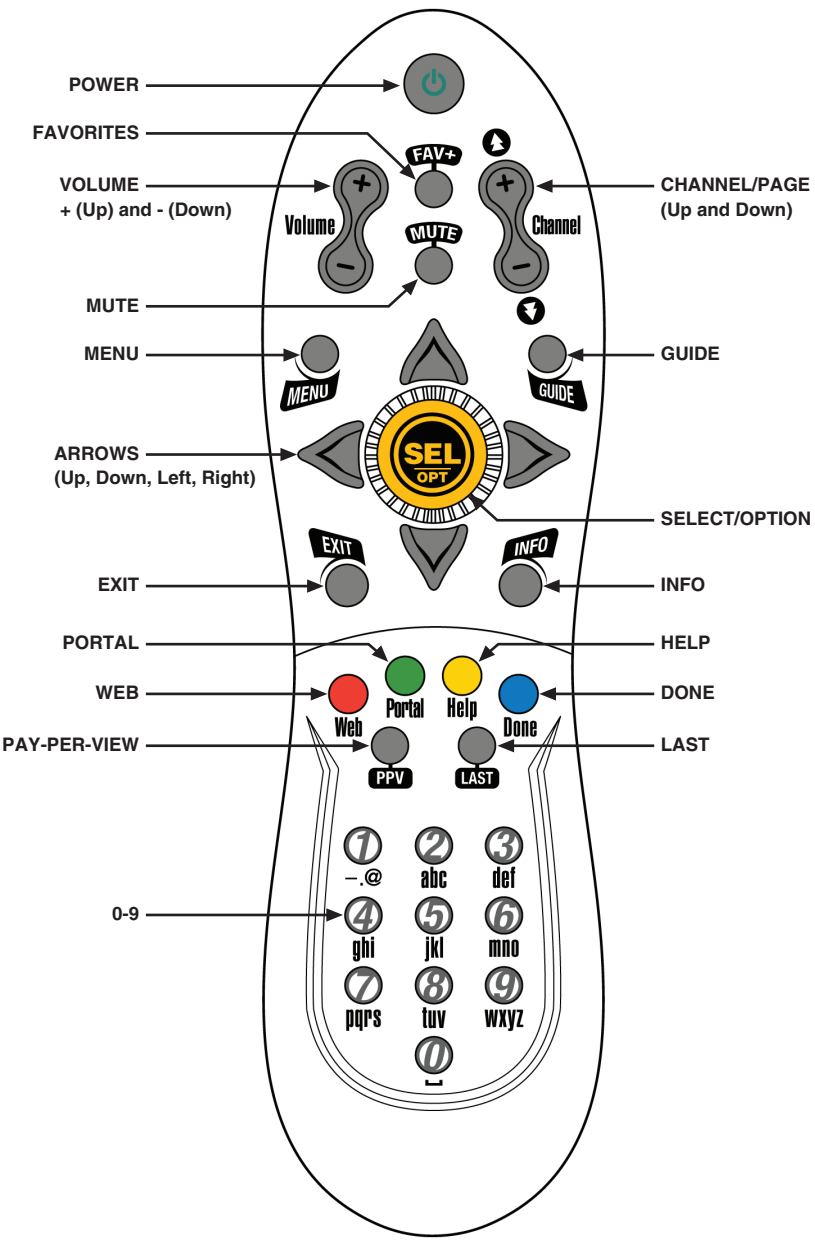


1.5 Remote Control

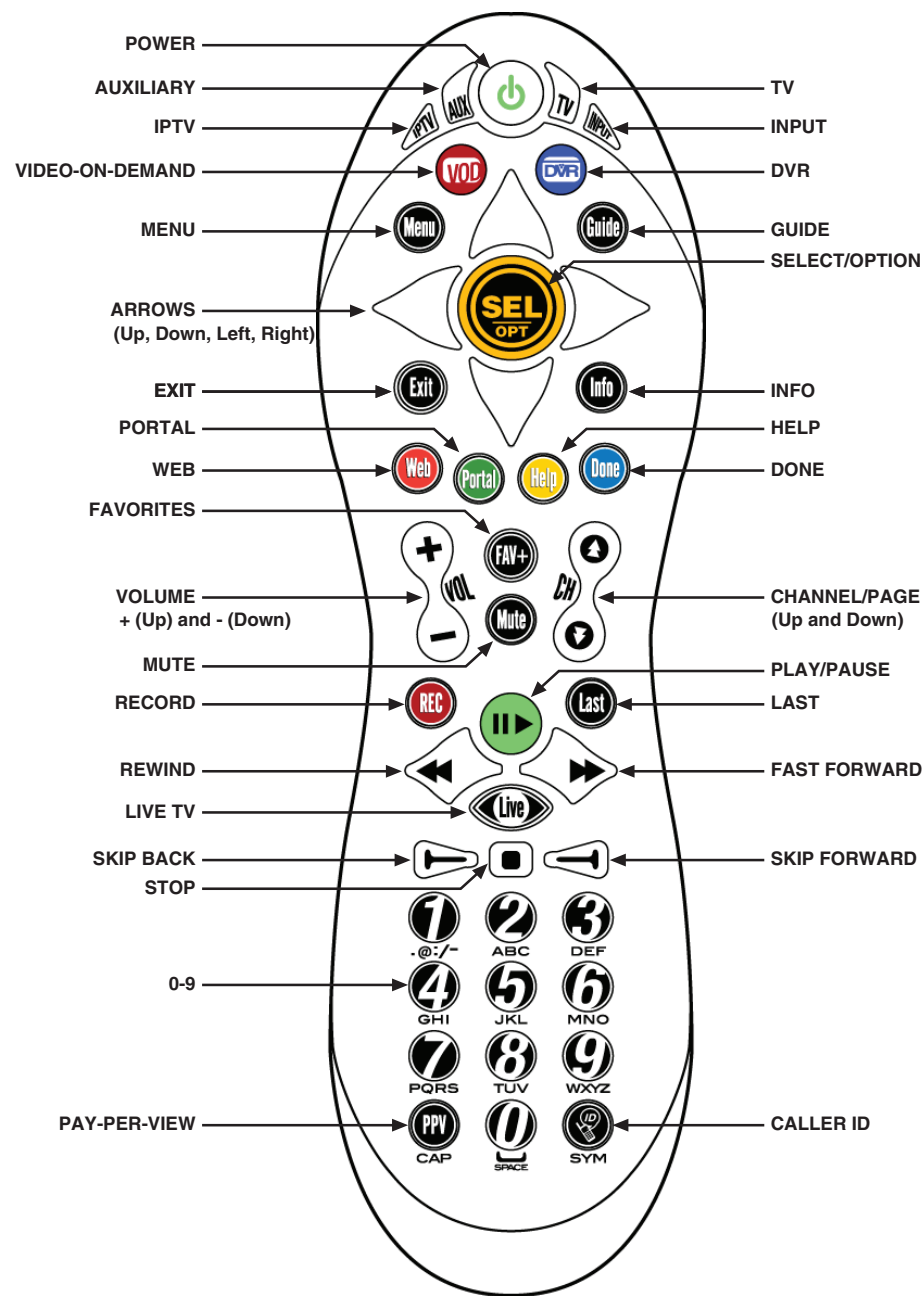
POWER	Switches Power On or into Stand-By Mode.
VOLUME	Increases or decreases volume levels.
FAV+	Rotates Favorite Lists between All Channels, currently selected Theme and any of the active Custom Favorite Lists.
MUTE	Cancels the audio.
CHANNEL/ PAGE (Up or Down)	In SURF MODE, selects the previous and next available channels. While using channel lists, menu screens, or program lists, scrolls one page up or down.
MENU	Opens the MENU FEATURES screen of the MENU SYSTEM.
GUIDE	Displays the PROGRAM GUIDE.
ARROWS (Up, Down, Left, Right)	While using the MENU SYSTEM and PROGRAM GUIDE, arrows will move the onscreen highlight up, down, left, or right. While in INFO MODE, arrows will browse through the channel lineup (Up & Down) and the next available program (Right). While inside a text window, the Up and Down arrows will scroll through the characters A-Z and numbers "0-9". Use the Left and Right arrows to navigate through the text window.
SEL/OK	Confirms a selection. In SURF MODE displays the OPTION MENU.
EXIT	Returns video to full screen from any INFO, MENU SYSTEM, PORTAL or PROGRAM GUIDE screen.
INFO	Displays various information about the current program.
WEB	(Red) Displays the WEB BROWSER.
PORTAL	(Green) Displays the MAIN PORTAL screen.
HELP	(Yellow) Displays the HELP AND INFORMATION for the current screen.
DONE	(Blue) Automatically selects "DONE" or "CANCEL" onscreen and saves any changes you have made to the current screen.
VOLUME	Increases or decreases volume levels.
PPV	Displays Pay-Per-View feature.
LAST	Switches between the current and previous channel. In the MENU SYSTEM and PROGRAM GUIDE, LAST returns to the previous screen.
0-9	Enters Channel Numbers, PIN-Code Numbers and various Characters.



All Remote Control Features are subject to availability.

1.6 Universal Remote Control

IPTV	Activates remote to control the Digital Set-Top Box (IPTV MODE).
AUX	Activates the remote to control an auxiliary device (AUXILIARY MODE).
POWER	Switches Power On or into Stand-By Mode.
TV	Activates remote to control a TV (TV MODE).
INPUT	Selects the Video Source (i.e. Video 1, Video 2, etc.)
VOD	Displays the VIDEO ON DEMAND service.
DVR	Displays the DVR Playlist.
MENU	Opens the MENU FEATURES screen of the MENU SYSTEM.
GUIDE	Displays the PROGRAM GUIDE.
ARROWS (Up, Down, Left, Right)	While using the MENU SYSTEM and PROGRAM GUIDE, arrows will move the onscreen highlight up, down, left, or right. While in INFO MODE, arrows will browse through the channel lineup (Up & Down) and the next available program (Right). While inside a text window, the Up and Down arrows will scroll through the characters A-Z and numbers "0-9". Use the Left and Right arrows to navigate through the text window.
SEL/OPT	Confirms a selection. In SURF MODE displays the OPTION MENU.
EXIT	Returns video to full screen from any INFO, MENU SYSTEM, PORTAL or PROGRAM GUIDE screen.
INFO	Displays various information about the current program.
WEB	(Red) Displays the WEB BROWSER.
PORTAL	(Green) Displays the MAIN PORTAL screen.
HELP	(Yellow) Displays the HELP AND INFORMATION for the current screen.
DONE	(Blue) Automatically selects "DONE" or "CANCEL" onscreen and saves any changes you have made to the current screen.
VOLUME	Increases or decreases volume levels.
FAV+	Rotates Favorite Lists between All Channels, currently selected Theme and any of the active Custom Favorite Lists.
MUTE	Cancels the audio.
CHANNEL/ PAGE (Up or Down)	In SURF MODE, selects the previous and next available channels. While using channel lists, menu screens, or program lists, scrolls one page up or down.
RECORD	Sets the DVR, or a VCR to record.
LAST	Switches between the current and previous channel. In the MENU SYSTEM and PROGRAM GUIDE, LAST returns to the previous screen.
PLAY/PAUSE	Instructs the DVR, a VCR or a DVD player to Play or Pause.
LIVE TV	Directs the DVR to display Live TV.
SKIP BACK	Instructs the DVR or DVD player to replay the current scene or track.
STOP	Instructs a DVR, a VCR or a DVD player to Stop.
SKIP FORWARD	Instructs the DVR or DVD player to skip to the next scene or track.
0-9	Enters Channel Numbers, PIN-Code Numbers and various Characters.
PPV	Displays Pay-Per-View feature.
CALLER ID	Displays Caller ID feature.



All Remote Control Features are subject to availability.

No LED lights appear on the front panel display of your Digital Set-Top Box.	Your box is not plugged in properly.	Make sure the power cord is plugged in correctly and the power outlet is working properly.
The Digital Set-Top Box does not respond to your Remote Control.	<ol style="list-style-type: none"> 1. The Digital Set-Top Box is in standby mode. 2. Something, such as furniture, is blocking the path between the Remote Control and the Digital Set-Top Box. 3. The batteries in the Remote Control need to be replaced. 	<p>Check that nothing is blocking the front panel of your Digital Set-Top Box. Press the POWER button on the Remote Control. This will bring the Digital Set-Top Box out of standby mode.</p> <p>If this does not work, your Digital Set-Top Box may be at fault. But if this works, you should replace the batteries on your Remote Control. If replacing the batteries properly (check the + and - position) doesn't work, then your Remote Control may have problems.</p>
LED Lights display on the front panel of the Digital Set-Top Box, but nothing is displayed on the TV.	The Digital Set-Top Box is not hooked up properly to your television set.	<p>If your system is connected by Coax Cables, switch your TV to the channel you have selected as its channel for the Digital Set-Top Box.</p> <p>NOTE: If you have not yet manually tuned your TV or turned your TV on, you need to do this first.</p>

Universal Remote Codes

The Nagravision Universal Remote Control is already programmed to control your Digital Set-Top Box.

Code Setup

Manual Code Setup (TV and AUX)

- 1) Turn on the electronic devices (TV, VCR, DVD, etc.) that you want to program the universal remote control to operate.
- 2) Press and hold down [TV] or [AUX] button for 3 seconds until LED indicator lights and remains illuminated on remote control.
- 3) From the setup code list, press the 3-digit code for your brand device.
- 4) If the device turns off when you enter the 3-digit code, press the [TV] or [AUX] button to confirm.
- 5) The indicator light will flash 3 times and then turn off.

Auto Code Setup (TV and AUX)

- 1) Turn on the electronic devices (TV, VCR, DVD, etc.) that you want to program the universal remote control to operate.
- 2) Press [TV] or [AUX] button and hold both down until the red light on your remote control comes on.
- 3) Press and release the [CHANNEL/PAGE +] button (or [CHANNEL/PAGE -] button) until the device turns off.
- 4) As soon as device turns off, press the [TV] or [AUX] button to confirm.
- 5) The indicator light will flash 3 times and then turn off.

Code Information

To identify the 3-digit setup codes stored under auto setup or manual setup, follow these steps:

- 1) Press [TV] or [AUX] button until LED indicator lights on the remote control.
- 2) Press [INFO]. The red light on your remote control will blink the code numbers with a 2 second interval between each digit of the code. Example: For code "143", the LED indicator light on the remote control will blink 1 time then 4 times, then 3 times.

NOTE: For "0", the remote will flash 4 times in rapid succession.

Total Reset

To reset your remote control to its factory default settings, follow these steps:

- 1) Press [TV] or [AUX] button until LED indicator lights on remote control.
- 2) Enter the code "000".
- 3) The remote control returns to factory defaults after the LED indicator light on the remote control blinks 3 times.

TV CODES

ADMIRAL: 220,160,081,072,161
ADVENT: 231
AIWA: 213
AKAI: 146,001,049,050
AMARK: 143,131
AMPRO: 073,157,167
AMSTRAD: 052
ANAM: 242,131,080,056,043
AOC: 058,004,001,131
APEX: 247
AUDIOVOX: 076
BLAUPUNKT: 088
BROKSONIC: 241
CAIRN: 201
CANDEL: 004,003,002,001
CAPEHRT: 058
CETRONIC: 043
CITIZEN: 143,103,101,043,004,003,002,001
CLASSIC: 043
CONCERTO: 004
CONTEC: 051,043,079
CORNEA SYSTEM: 246
CORONADO: 143
CRAIG: 043
CROWN: 143,043
CURTIS MATHES: 143,101,004,001
CXC: 043
DAEWOO: 143,127,125,114,103,076,043,027,016,004,069
DAYTRON: 143,004
DELL: 036
DWIN: 177
DYNASTY: 043
DYNATECH: 062
DYNEX: 068
EIKI: 187
ELECTRO HOME: 196,143,076,024
EMERSON: 245,155,154,143,096,076,051,048,047,043,028,005,004,001,077,079,151,153
ESA: 049,050
FISHER: 057,007
FUJITSU: 244,198,117,118
FUNAI: 245,043,028
FUTURETECH: 043
GATEWAY: 041,202
GE: 220,165,160,155,144,074,073,056,034,009,008,004,001,091,130,157,206
GRADIENTE: 218,110
HAIER: 203
HALL MARK: 004
HITACHI: 143,075,072,023,012,011,010,009,004,158,166
INFINITY: 249,164
INSIGNIA: 054
JBL: 249,164
JC PENNEY: 160,143,101,065,030,024,009,008,004,001,156
JENSEN: 013
JVC: 237,230,145,083,070,038,034,199
KEC: 043
KENWOOD: 070,001
KLOSS: 059,002
KMC: 143
KTV: 250,154,143,043,001
LG(GOLDSTAR): 143,127,119,106,004,102,113,116,131
LODGENET: 072
LOEWE: 249
LOGIK: 072
LUXMAN: 069
LXI: 249,164,160,081,052,015,007,166
MAGNAVOX: 249,205,223,222,216,210,164,160,127,094,064,063,060,059,004,003,001,218,219,014,039,108
MARANTZ: 249,164,001
MATSUI: 164
MEMOREX: 096,072,007,004
METZ: 088
MGA: 042,028,024,004,001
MINERVA: 088
MITSUBISHI: 225,146,124,109,042,040,031,028,021,024,004,191

MOTOROLA: 217
MTC: 101,062,004,001
NAD: 025,015
NEC: 056,040,024,019,016,001,130,132,134
NIKEI: 043
OLEVIA: 045
ONKING: 043
ONWA: 043
OPTONICA: 081,019
ORION: 096
PANASONIC: 250,249,238,236,227,164,080,056,034,017,033,092
PHILCO: 164,064,063,060,059,056,024,004,003,001
PHILIPS: 249,205,164,127,093,066,059,038,005,004,003,001
PIONEER: 135,025,023,018,001,116,190
PORTLAND: 143,004
PROSCAN: 197,165,220,160,144,161,167
PROTON: 173,171,143,131,058,004,193
QUASAR: 250,056,044,034,017,092
RADIO SHACK: 143,127,043,019,004
RCA: 228,220,165,160,152,144,074,065,056,024,023,004,001,156,161,208
REALISTIC: 047,043,019,007,077
ROCTEC: 186
RUNCO: 182,168,073,157,169,178,179,180,181
SAMPO: 202,058,004,001
SAMSUNG: 251,248,209,160,143,127,105,101,089,004,079,121,026
SANSUI: 078,097
SANYO: 082,057,053,020,007,166,187
SCEPTRE: 035,253,070
SCOTT: 143,048,043,028,004
SEARS: 165,160,143,094,082,057,030,028,015,007,004,166
SELECO: 189,200

SHARP: 207,170,143,081,029,028,022,019,004,067,175,254,084,090
SIEMENS: 088
SIGNATURE: 072
SONY: 194,147,139,070,006,085,126,185
SOUNDESIGN: 043,028,004,003
SPECTRICON: 131
SSS: 043,004
SUPRE MACY: 002
SYLVANIA: 249,245,240,229,226,211,164,160,127,064,063,060,059,003,001,069
SYMPHONIC: 245
TANDY: 081
TATUNG: 062,056
TECHNICS: 080,034
TECHWOOD: 004
TEKNIKA: 143,101,072,043,028,024,004,003,002
TELEFUNKEN: 037,071,086,087
TELERENT: 072
TERA: 172
THOMAS: 245
TMK: 004
TOSHIBA: 232,138,101,062,040,032,030,015,007,122
TOTEVISION: 143
UNIVERSAL: 009,008
VIDEO CONCEPTS: 146
VIDIKRON: 184,174,188
VIDTECH: 004
VIORE: 046
VISIO: 100
WARDS: 249,164,143,074,072,064,063,060,034,028,019,009,008,004
WESTING HOUSE: 245,076,061,055,054,252
YAMAHA: 004,001
YORK: 004
YUPITERU: 043
ZENITH: 103,095,073,072,157,120
ZONDA: 131

VCR CODES

AIWA: 161,034
AKAI: 146,125,124,046,043,016
AMPRO: 072
ANAM: 145
AUDIO DYNAMICS: 043,039,012
BROKSONIC: 129,037
CANON: 145
CAPEHART: 108
CRAIG: 135,104,001
CURTIS MATHES: 145,041
DAEWOO: 117,112,111,108,010,007,005
DAYTRON: 108
DBX: 043,039,012
DYNATECH: 053,034
ELECTROHOME: 059
EMERSON: 167,131,129,117,106,145,046,037,036,034,025,006
FISHER: 010,009,008,001
FUNAI: 034
GE: 147,144,109,107,145,072
GO VIDEO: 168,155,136,132,104
HARMAN KARDON: 046,012
HITACHI: 160,043,034,026,020
INSTANT REPLAY: 145
JC PENNEY: 106,104,145,020,012
JCL: 145
JENSEN: 043
JVC: 152,130,145,060,048,043,012
KENWOOD: 048,047,034,014
LG(GOLDSTAR): 123,114,106,020,012
LLOYD: 034
LXI: 106,034,009,001
MAGIN: 104
MAGNAVOX: 164,156,145,067,041,034
MARANTZ: 145,069,067,012
MARTA: 106
MATSUI: 030
MEI: 145
MEMOREX: 145,139,106,104,072,053,034,014,010,001
MGA: 059,046
MINOLTA: 020
MITSUBISHI: 223,203,151,061,059,046,020
MOTOROLA: 201
MTC: 104,034
MULTI TECH: 034,024
NEC: 048,043,039,012
NORDMENDE: 043
OPTONICA: 053
ORION: 025
PANASONIC: 211,202,145,074,070
PENTAX: 145,020
PHILCO: 145,067,034
PHILIPS: 106,145,071
PILOT: 106
PIONEER: 048,021,020
PORTLAND: 108
PROSCAN: 205,204
PULSAR: 072
QUARTZ: 041,002
QUASAR: 145
RADIO SHACK: 123
RCA: 209,158,147,145,144,109,107,104,041,034,020
REALISTIC: 106,104,145,053,034,014,010,008,001
RICO: 058
RUNCO: 148
SALORA: 014
SAMSUNG: 208,168,125,112,109,107,104,145,032
SANSUI: 135,048,043
SANYO: 104,014,010,007,001
SCOTT: 131,129,112,037
SEARS: 112,106,020,014,010,009,008,001
SHARP: 215,165,159,145,053

SHINTOM: 024
SIGNATURE: 034
SONY: 212,206,154,153,145,078,076,058,057,056,053,052,001
SOUNDESIGN: 034
STS: 020
SYLVANIA: 220,219,218,145,067,059,034
SYMPHONIC: 034
TANDY: 034,010
TATUNG: 043,039
TEAC: 043,039,034
TECHNICS: 145,070
TEKNIKA: 106,145,034,019
THOMAS: 034
TMK: 006
TOSHIBA: 221,131,113,112,082,059,047,020,008
TOTEVISION: 106,104
UNITECH: 104
VECTOR RESEARCH: 012
VICTOR: 048
VIDEO CONCEPTS: 046,034,012
VIDEOSONIC: 104
WARDS: 131,104,145,053,034,024,020,001
YAMAHA: 043,039,034,012
ZENITH: 167,106,080,072,058,056,048,034

DVD CODES

APEX DIGITAL: 453,520
BROKSONIC: 317
CYBERHOME: 465,320,304
DAEWOO: 493,471
DENON: 540,526
EMERSON: 458,450,448
GE: 543,531
GO VIDEO: 314,460,302
GRADIENTE: 501,492
HARMON KARDON: 525,518,473
HUMAX: 490,491,401,403

JVC: 538,312
KENWOOD: 524
KLH: 523
LG(GOLDSTAR) : 549,547,541,535
LITE ON: 321
MAGNAVOX: 537,463,468,316
MARANTZ: 468
MEMOREX: 308
MITSUBISHI: 527
NAD: 521
ONKYO: 533,301
PANASONIC: 534,528,467,452,449
PHILIPS: 537,466,468,316,307
PIONEER: 530,529,489,315,400
PROCEED: 519
PROSCAN: 531,529
RCA: 543,531,470,319
SAMSUNG: 548,461,313,305
SANSUI: 317
SANYO: 306
SHARP: 522,502
SONY: 544,532,504,469,303,309,404,405
SYLVANIA: 472,450
THOMSON: 543,531
TIVO: 491,400,401,402,403,404,405
TOSHIBA: 550,545,533,490,494,451,311,318,401
YAMAHA: 546,534
ZENITH: 547,541,535,314